

INTERNATIONAL SEARCH REPORT  
Information on patent family members

International Application No  
PCT/GB2004/004255

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 3520716	A	14-07-1970	NONE
US 2676114	A	20-04-1954	NONE
US 4776938	A	11-10-1988	JP 1754620 C 23-04-1993 JP 4047891 B 05-08-1992 JP 62082516 A 16-04-1987 JP 62082517 A 16-04-1987 KR 9007484 B1 10-10-1990 US 4808489 A 28-02-1989
US 4469719	A	04-09-1984	NONE
US 6045671	A	04-04-2000	CA 2254460 A1 24-05-2000 US 5985356 A 16-11-1999 US 5776359 A 07-07-1998 EP 0917494 A1 26-05-1999 JP 2000503753 T 28-03-2000 WO 9847613 A1 29-10-1998 AU 3957795 A 06-05-1996 CA 2202286 A1 25-04-1996 CN 1181055 A ,C 06-05-1998 EP 1442788 A2 04-08-2004 EP 1479435 A1 24-11-2004 EP 1481726 A1 01-12-2004 EP 0789671 A1 20-08-1997 EP 1002572 A2 24-05-2000 EP 1002573 A2 24-05-2000 EP 0992281 A2 12-04-2000 JP 10512840 T 08-12-1998 JP 2004163418 A 10-06-2004 NO 971777 A 18-06-1997 US 2002119243 A1 29-08-2002 WO 9611878 A1 25-04-1996 US 6410331 B1 25-06-2002 US 6346290 B1 12-02-2002 US 6420179 B1 16-07-2002 US 2003134089 A1 17-07-2003 US 2003100119 A1 29-05-2003 US 2003219906 A1 27-11-2003 US 6419881 B1 16-07-2002 US 6440745 B1 27-08-2002 US 2004014077 A1 22-01-2004 US 6004617 A 21-12-1999 US 6326090 B1 04-12-2001 US 6649413 B1 18-11-2003 US 6686205 B1 03-02-2004 US 2004154704 A1 12-08-2004 US 2001055669 A1 27-12-2001 US 2001055775 A1 27-12-2001

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## INTERNATIONAL SEARCH REPORT

International Application No.

PCT/GB2004/004255

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C23C14/04 B01J19/00 C23C16/04 C23C14/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C23C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, COMPENDEX, INSPEC, PAJ, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 520 716 A (HIROAKI OKAMOTO ET AL) 14 July 1970 (1970-07-14) column 3, line 11 - column 7, line 44; claim 1; figures 1-6,8-10	1-4
X	US 2 676 114 A (BARKLEY DWIGHT W) 20 April 1954 (1954-04-20) column 3, line 9 - column 7, line 73; claims 1-6; figures 1-10	1-4
X	US 4 776 938 A (ABE ET AL) 11 October 1988 (1988-10-11) column 2, line 61 - column 3, line 17; claims 1,5; figures 1,8	1-3
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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\*Z\* document member of the same patent family

Date of the actual completion of the international search

10 March 2005

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